Why Build Green?

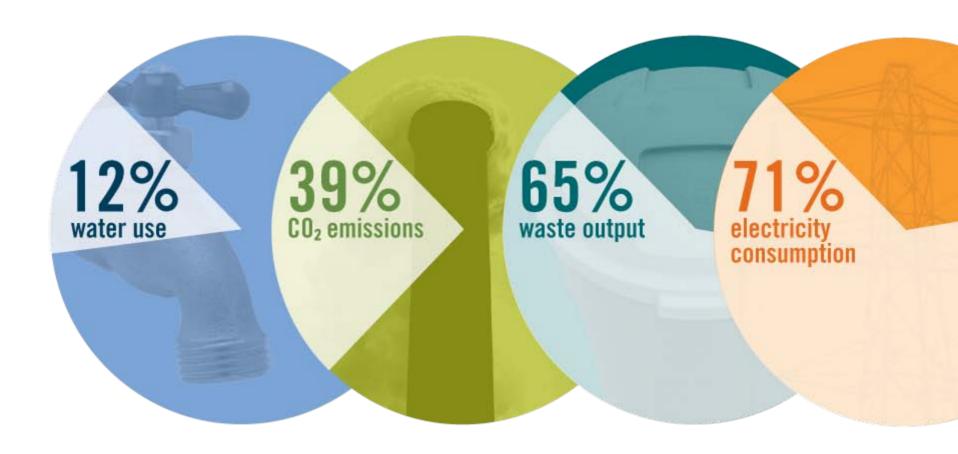
City Council Lunch Springfield, Missouri October 2, 2007



Jason Hartke

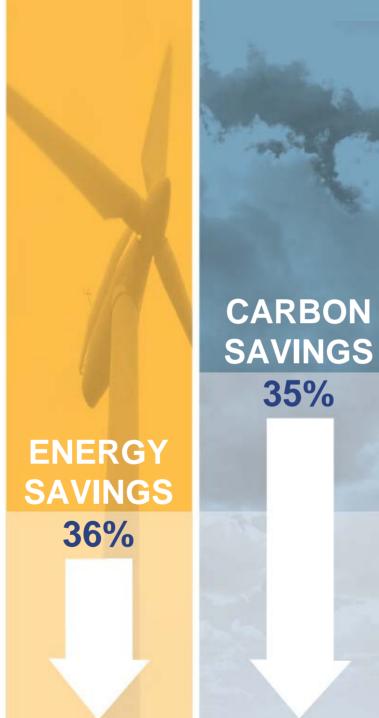
Manager, State and Local Advocacy U.S. Green Building Council

U.S. Building Impacts:





Average Savings of Green Buildings





WASTE COST SAVINGS 50-90%

Additional constructions costs for **LEED-certified buildings**

Average for offices and schools, based on 40 buildings

Conventional Building Cost (100%)

Additional Cost

PLATINUM

6.8%

GOLD (9 buildings)

2.2%

SILVER (21 buildings)

1.9%

CERTIFIED (8 buildings)

Incremental Cost Range

Typical Range of Incremental Percentage Capital Cost of Meeting LEED

• LEED Certified: **0 – 2.5**%

• LEED Silver: **0 – 3.3**%

• LEED Gold: **0.5 – 5%**

• LEED Platinum: 4 – 8.5%

"The City of Seattle reports that the average incremental cost of meeting LEED Silver across all projects is 1.7%."

Source: KEMA

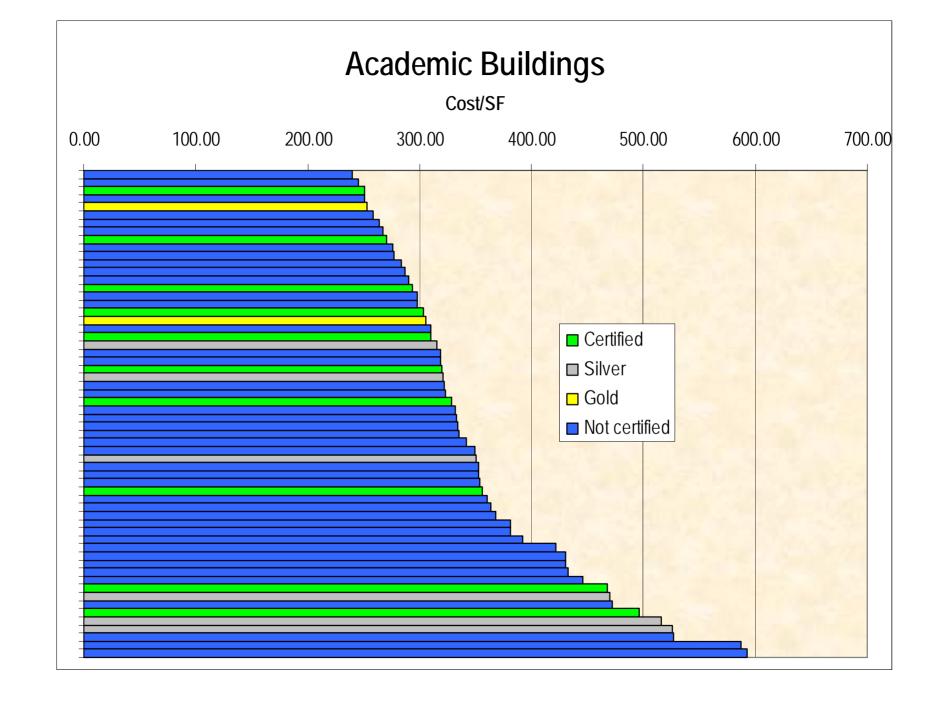


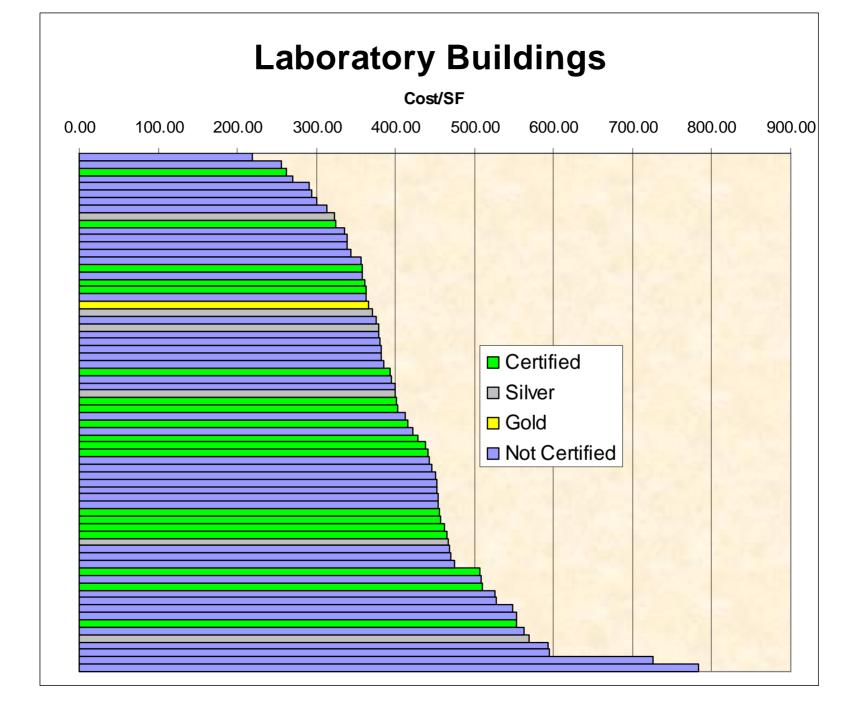
12-24

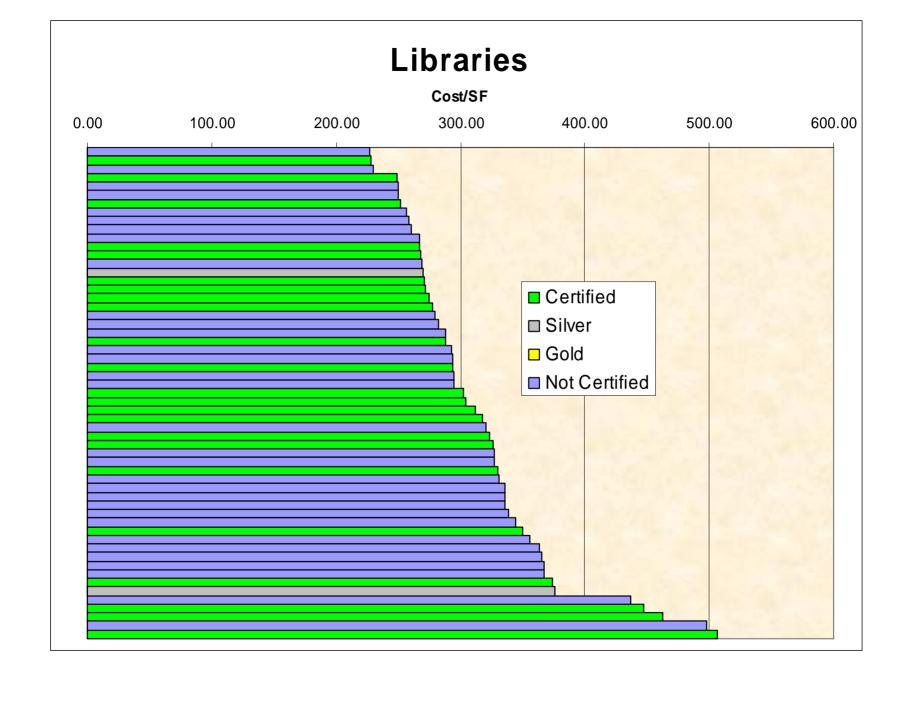
10-20

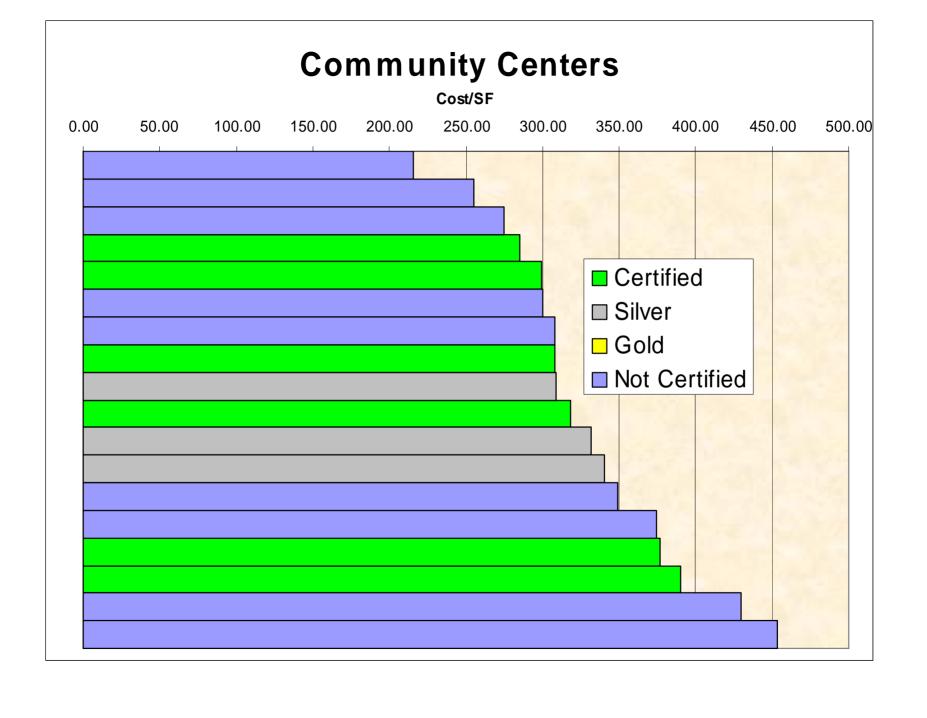
>1 cent











 Projects are achieving LEED within their budgets, and in same cost range as non-LEED projects.

 Construction costs have risen dramatically, but projects are still achieving LEED: cost cannot be a major issue or it would be valueengineered out.

- Source: Davis Langdon, 2006



Improved Bottom Line.





Increased SCHOOLS HOSPITALS Productivity. 20% **EARLIER BETTER TEST DISCHARGE PERFORMANCE** OFFICES **FACTORIES RETAIL** 2-16% **INCREASE INCREASED PRODUCTIVITY** IN SALES PER **PRODUCTION** FLC **INCREASE SQUARE FOOT**

30 Schools Studied

33.4%

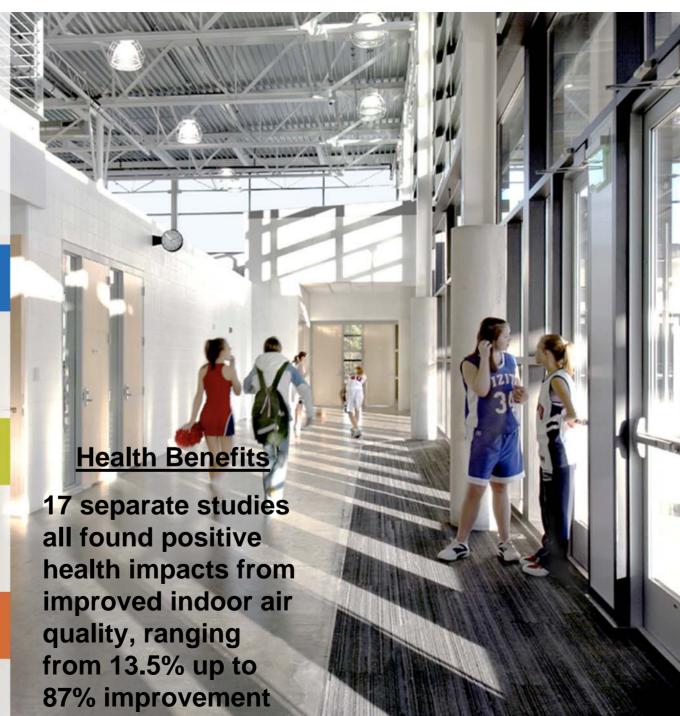
Average direct energy savings

50%

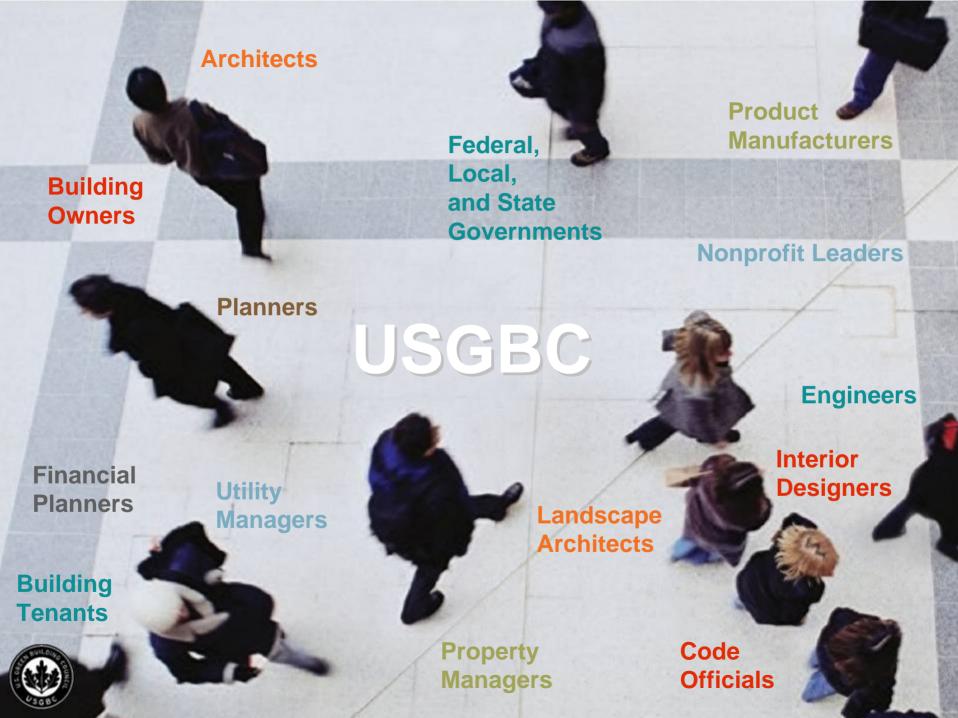
Average indirect energy savings

32.1%

Average water savings









What is the LEED System?

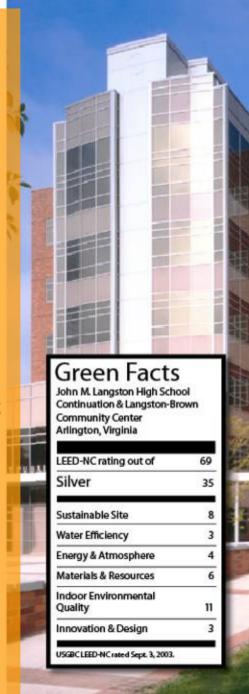
LEADERSHIP in ENERGY and ENVIRONMENTAL DESIGN

A leading-edge system for certifying DESIGN, CONSTRUCTION, & OPERATIONS of the greenest buildings in the world

Scores are tallied for different aspects of efficiency and design in appropriate categories.

For instance, LEED assesses in detail:

- 1. Site Planning
- 2. Water Management
- 3. Energy Management
- 4. Material Use
- 5. Indoor
 Environmental
 Air Quality
- 6. Innovation & Design Process





Levels of LEED Ratings

Green Buildings worldwide are certified with a voluntary, consensus-based rating system.

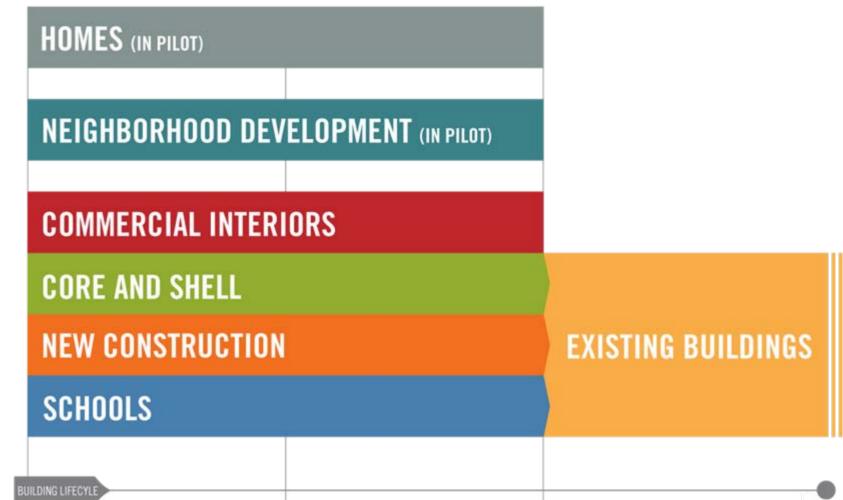
USGBC has four levels of LEED.







LEED addresses the complete lifecycle of buildings:

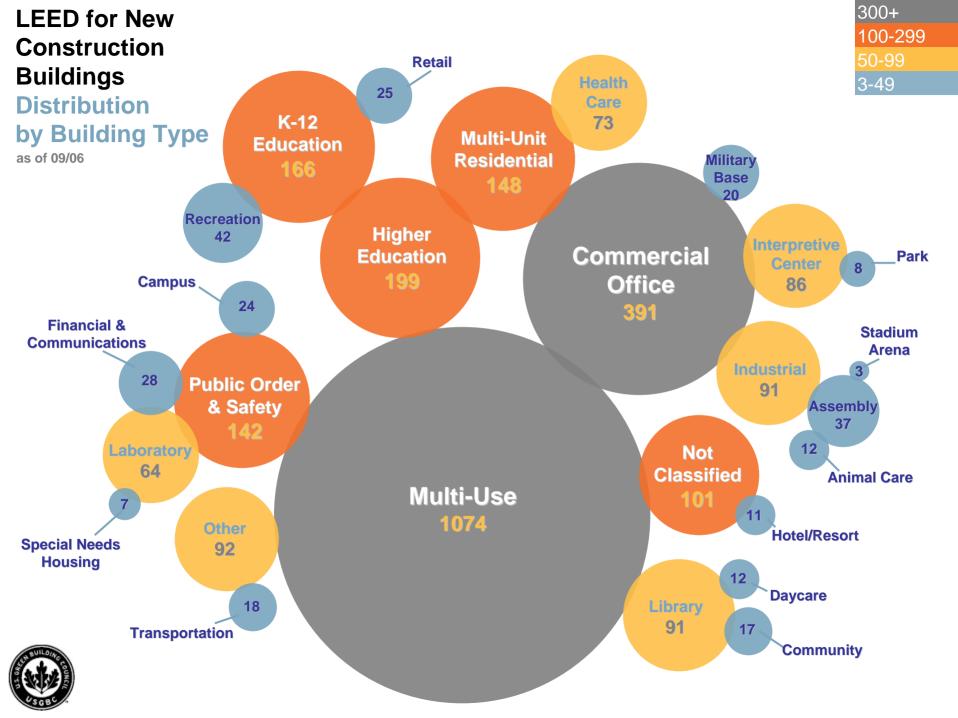




DESIGN

CONSTRUCTION

OPERATIONS







LEED projects totals:

As of 09/25/2007

Every Business Day:

•\$100 million worth of construction registers with LEED





Increase in **LEED** projects since 2002.

2 billion sq ft

2006/2007 More than UU million sq ft

4 billion sq ft

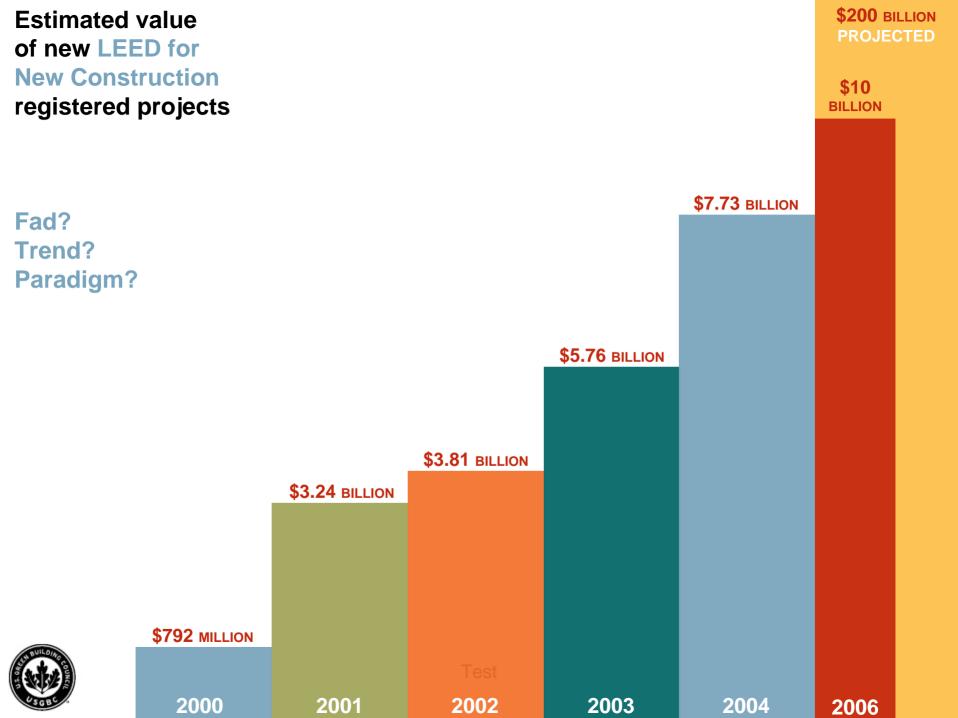
2004

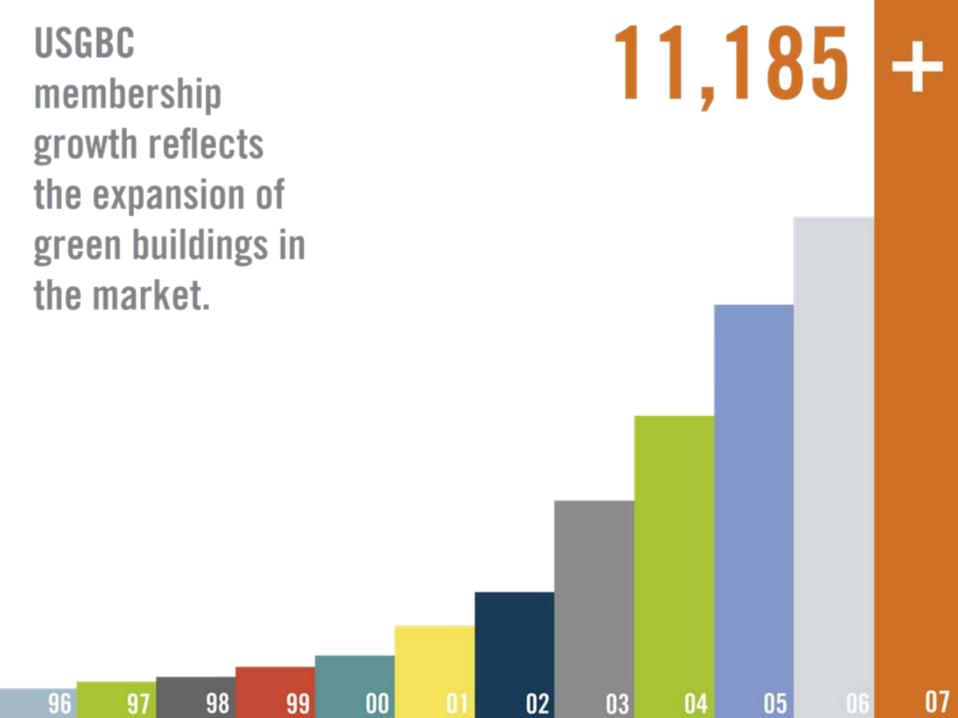
2005 500 million sq ft

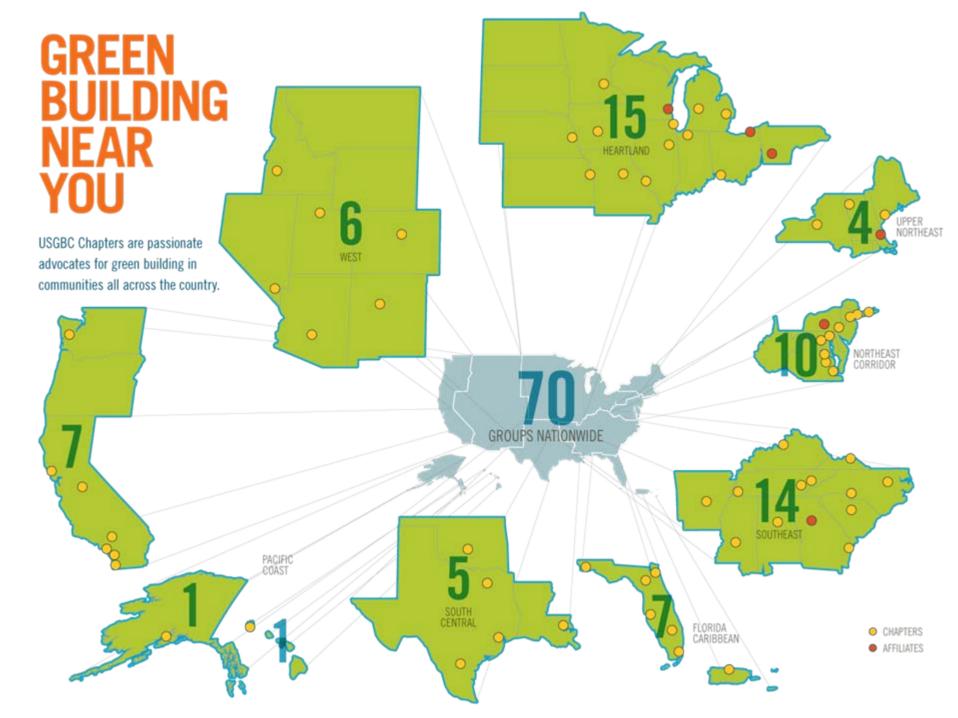
2003 141 million sq ft

180 million sq ft

2002 80 million sq ft







SON PARTNERS

Charles Street J 07030

40

18

onpartners.com

CK, AIA, LEED AP

AL ARCHITECT

40,000+ **LEED APs**

25 accreditations per day (average)



Leading by Example

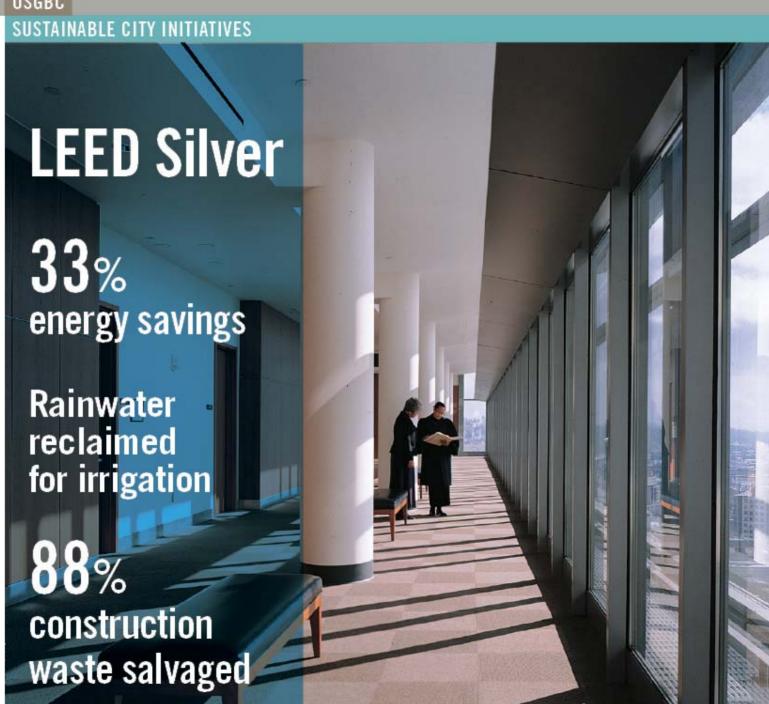
The Proliferation of Public Sector Adoptions (80+)

-Acton, MA	-Berkeley, CA	-Dallas, TX	-Irvine, CA	-Miami-Dade, FL
-Alameda Co., CA	-Boulder, CO	-Dublin, CA	-Issaquah, WA	-Monroe Co. NY
-Albuquerque, NM	-Boston, MA	-Eugene, OR	-Kansas City, MO	-Mont. Co. MD
-Arlington, MA	-Calabasas, CA	-Everett, WA	-King County, WA	-Morgantown, WV
-Asheville, NC	-Chapel Hill, NC	-Fort Collins, CO	-Livermore, CA	-Nashville, TN
-Athens, GA	-Chicago, IL	-Frisco, TX	-Long Beach, CA	-New York, NY
-Atlanta, GA	-Cincinnati, OH	-Gainesville, FL	-Los Angeles, CA	-Normal, IL
-Austin, TX	-Clayton, MO	-Grand Rapids, MI	-LA County, CA	-Pasadena, CA
-Babylon, NY	-Cook County, IL	-Honolulu, HI	-Madison, WI	-Sarasota Co. FL
-Bellingham WA	-Cranford N.I	-Howard Co MD	-Miami Lakes Fl	-St Louis MO



City of Seattle owner

Municipal courts and police headquarters 288,000 sq ft





Chicago Dept. of the Environment owner/operator

Multi-use: government and commercial offices, assembly and educational 40,000 sq ft

SUSTAINABLE CITY INITIATIVES

LEED Silver

40% energy savings

50% of storm water is reclaimed

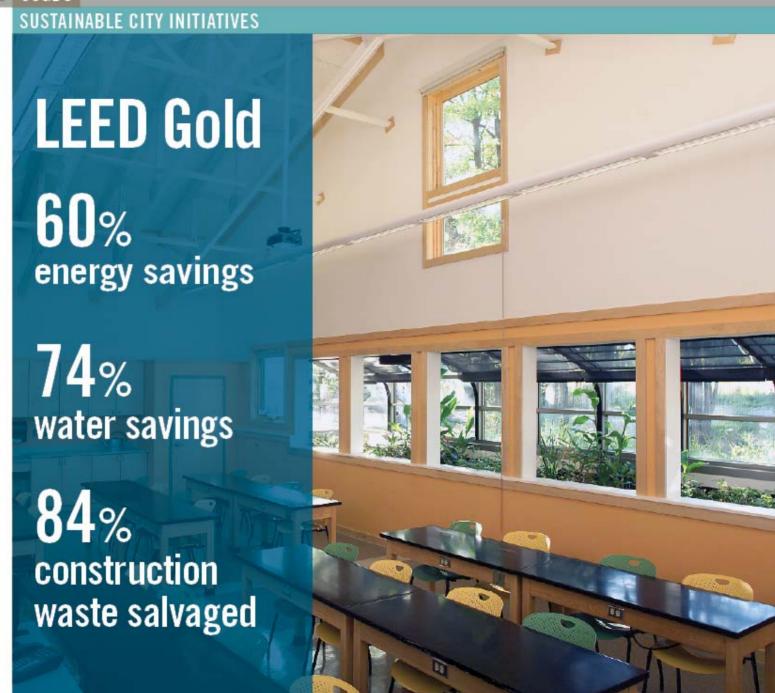
84% construction waste salvaged





Calvin College owner

Multiple use 5,270 sq ft

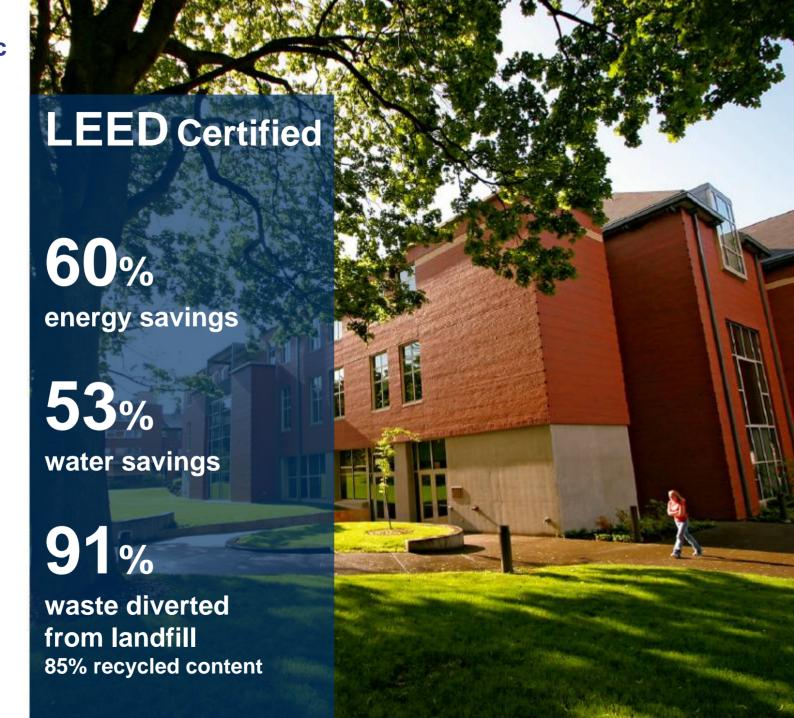




Case Study
Seattle Pacific
University
Science
Building

Seattle Pacific University, Seattle, WA owner

Higher education 63,000 sq ft



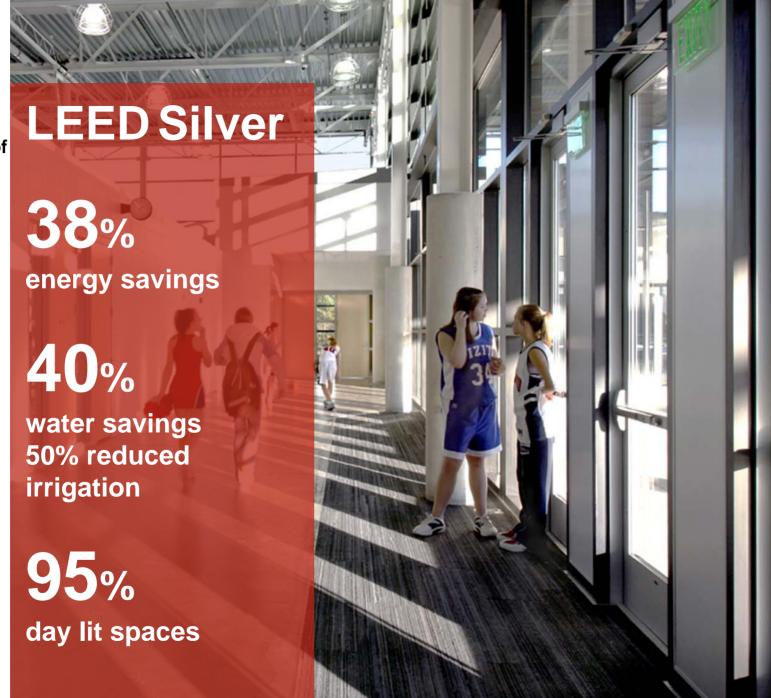


Case Study Homewood Middle School

Homewood Board of Education

Homewood, AL

Middle School 179,600 sq ft

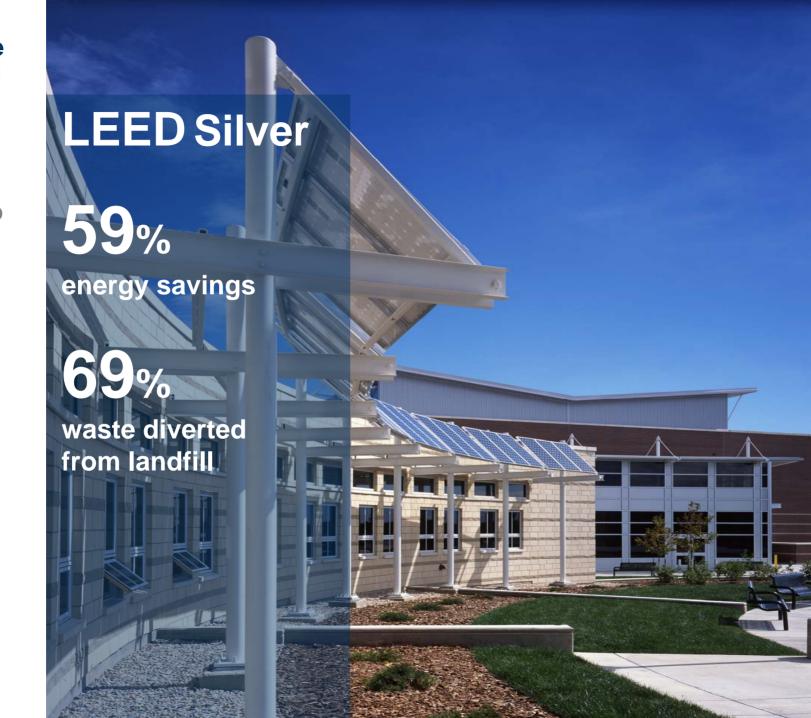




Case Study Fossil Ridge High School

Poudre School
District
Fort Collins, CO
owner

K-12 Education 289,100 sq ft



immediate measurable



